

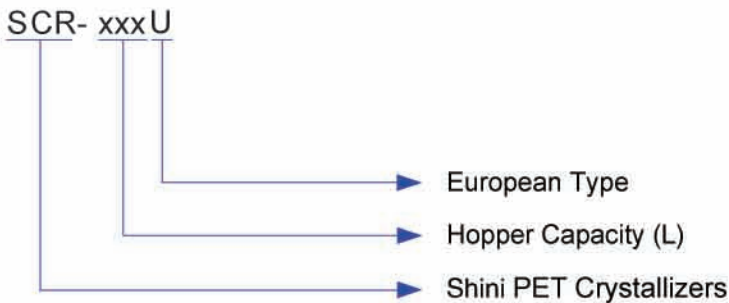


# PET Crystallizers



SCR-450U

## ■ Coding Principle



Note\*  
CE=CE Conformity

## ■ Features

### Standard configuration

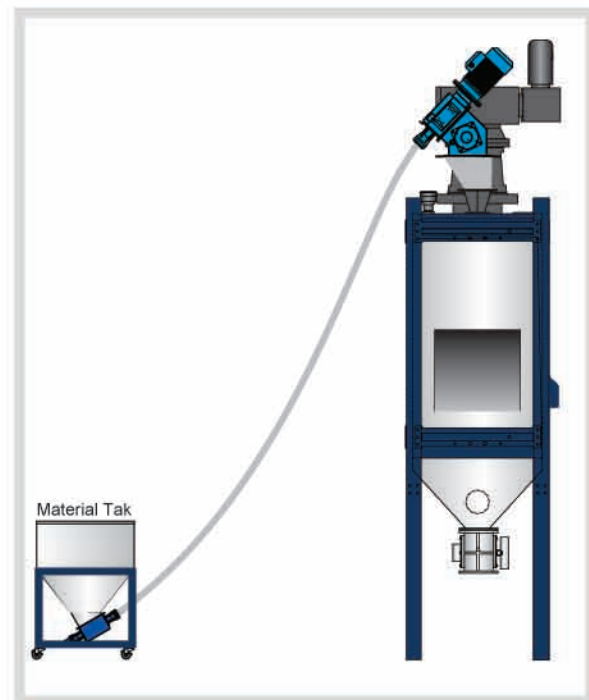
- Fixed speed of agitator makes materials not lump together during the crystallization.
- Simplify and improve drying efficiency.
- Materials can be dried under high temperature to raise drying efficiency.
- Cyclone dust collector is standard, which is applied to dust-rich place. Can effectively reduce the load on air-return filter, and extend the life of the filter to reduce the number of times of filter cleaning.
- With double overheat protectors, it can reduce the possibility of either mechanical or man-made problems.
- Equipped with rotary valve with good sealing performance, which can output crystallized material accurately.
- Equipped with material level switch, which can detect material level accurately and make operation reliable.

### Accessory option

- Can collocate with dehumidifier to fulfill dehumidification directly.
- Auto loader, hopper receiver, magnetic base, suction box are optional for material conveying.
- Optional conveying screw ( fixed or variable speed ) for quantitative output of crystallized material.
- External pipeline is optional with the stainless steel configuration.



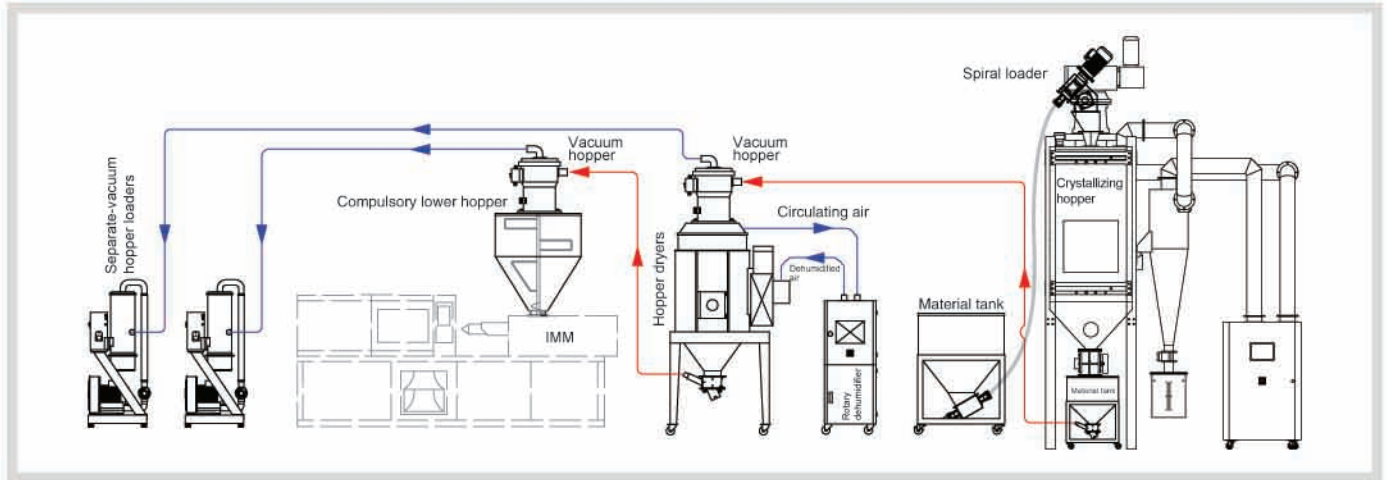
Inner Structure



Spiral Feeding (Option)

## ■ Application

SCR closed-loop crystallizers are used for constant crystallization of un-crystallized PET regrinds or pellets. Processed materials can then be dried and dehumidified directly. This system mainly consists of heating elements, insulated hopper and agitator screw mixing device. After un-crystallized PET materials fed into the hopper, the system starts crystallization and agitator starts blending to prevent formation in lumps. Crystallized materials can be conveyed to material storage bin or into drying hopper.

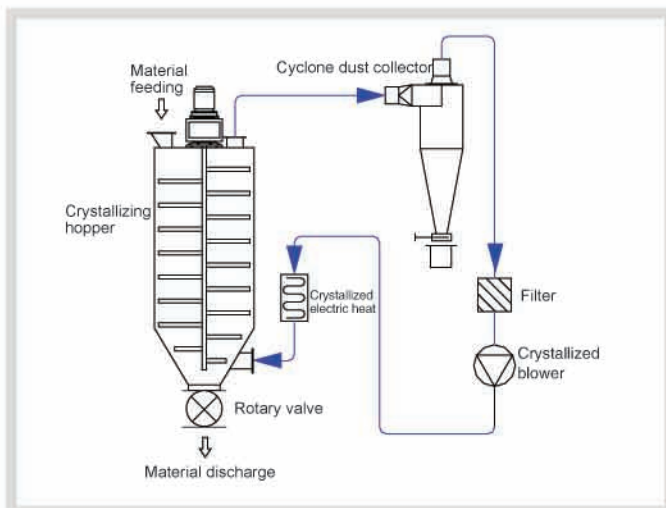


SCR Applications

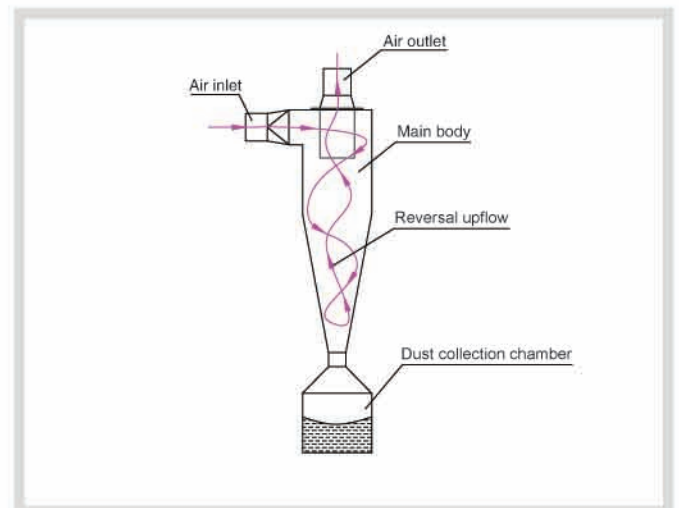
## ■ Working Principle

Once material filling starts, heat blower starts up and material heating begins. Control cabinet would stop sending signals to auto loader when material filling amount is higher than material level switch. Then material heating lasts for a while. When temperature sensing needle detects the value of reaching the set crystallized temperature, material would be conveyed out via feeding device; meanwhile, as material level in hopper lowers gradually, filling device starts to supply the uncrystallized material accordingly to realize the continuous crystallization process.

When temperature sensing needle detect the temperature value of stopping material conveying, feeding device halts. If temperature rise again to reach the set crystallized temperature, feeding device will be activated to work so that the continuous crystallization process can be realized through this kind of circle.

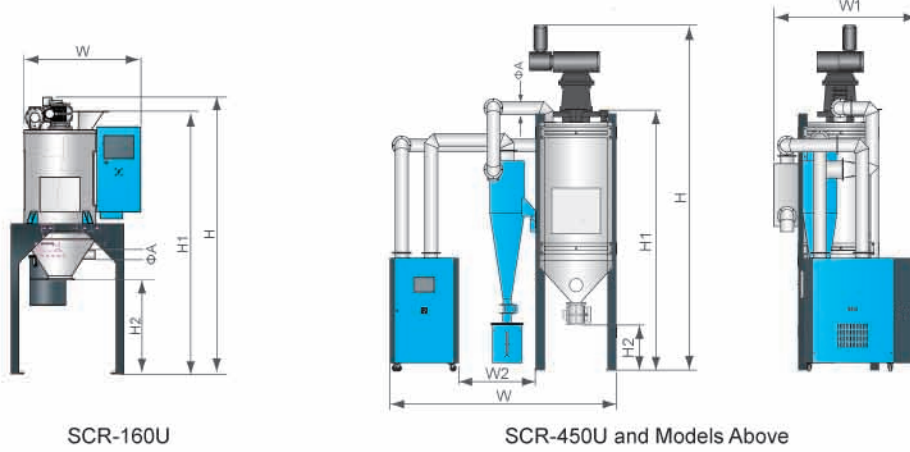


Working Principle



Working Principle of Cyclone Dust Collector

## Outline Drawings



SCR-160U

SCR-450U and Models Above

## Specifications

Model	SCR-160U	SCR-450U	SCR-900U	SCR-1600U	SCR-2500U
Heater Power (kW)	12	24	48	96	128
Blower Power (kW, 50 / 60Hz)	0.55 / 0.63	2.2 / 2.6	3 / 3.6	7.5 / 8.6	15 / 17.2
Blending Motor Power (kW, 50 / 60Hz)	0.25 / 0.28	1.1 / 1.26	1.5 / 1.8	1.5 / 1.8	4 / 4.8
Max. Throughput (kg/hr)	50	150	300	500	750
Hopper Capacity (L)	160	450	900	1600	2500
H (mm)	2170	3350	4000	4700	4700
H1 (mm)	2100	2600	3300	4080	4500
H2 (mm)	520	460	750	750	750
W (mm)	1080	2120	2560	3040	3182
W1 (mm)	1180	1380	1460	1620	1650
W2 (mm)	---	700	700	700	700
ΦA (inch)	3	5	6	8	8
Weight (kg)	235	500	865	2290	2790

Note: 1) Above maximum processing capacity is based on uncrystallized PET material of 0.85kg/L in density and 3~5mm in diameter.  
2) Power: 3Φ, 230 / 400 / 460 / 575VAC, 50 / 60Hz.

We reserve the right to change specifications without prior notice.

## ■ PET property

PET material is well-used in textile fiber, food and chemical packaging. Tape stripes, industry thread, heat-resistant dishware. Air bubble and chapping will take place due to its high moisture content.

With this drying demand and the development on plastic industry, Shini provides a series of secured and reliable drying and dehumidifying technologies for PET molding and other PET product manufacturers.

Shini's PET system has great technology to meet various application needs.

- Bottle and blank making
- Thermal forming film and sheet making
- Strapping tape and industrial yarns making
- Tubing making
- Waste recovery making





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